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21 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

22 Efficient string matching: an aid to bibliographic search

Alfred V. Aho, Margaret J. Corasick

June 1975 **Communications of the ACM**, Volume 18 Issue 6

Full text available: pdf(733.78 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a simple, efficient algorithm to locate all occurrences of any of a finite number of keywords in a string of text. The algorithm consists of constructing a finite state pattern matching machine from the keywords and then using the pattern matching machine to process the text string in a single pass. Construction of the pattern matching machine takes time proportional to the sum of the lengths of the keywords. The number of state transitions made by the pattern matching ...

Keywords: bibliographic search, computational complexity, finite state machines, information retrieval, keywords and phrases, string pattern matching, text-editing

23 An experimental study of an opportunistic index

Paolo Ferragina, Giovanni Manzini

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete**

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algorithms

Full text available: pdf(785.55 KB) Additional Information: full citation, abstract, references, citings, index terms

The size of electronic data is currently growing at a faster rate than computer memory and disk storage capacities. For this reason *compression* appears always as an attractive choice, if not mandatory. However space overhead is not the only resource to be optimized when managing large data collections; in fact data turn out to be useful only when properly *indexed* to support search operations that efficiently extract the user-requested information.

Approaches to combine c ...

24 A guided tour to approximate string matching

Gonzalo Navarro

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We survey the current techniques to cope with the problem of string matching that allows errors. This is becoming a more and more relevant issue for many fast growing areas such as information retrieval and computational biology. We focus on online searching and mostly on edit distance, explaining the problem and its relevance, its statistical behavior, its history and current developments, and the central ideas of the algorithms and their complexities. We present a number of experiments to ...

Keywords: Levenshtein distance, edit distance, online string matching, text searching allowing errors

25 A new character-based indexing method using frequency data for Japanese documents

Ogawa Yasushi, Iwasaki Masajirou

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(891.01 KB) Additional Information: full citation, references, citings, index terms

26 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

27 Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract)

Roberto Grossi, Jeffrey Scott Vitter

May 1999 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

28 The complexity of searching a sorted array of strings

Arne Andersson, Torben Hagerup, Johan Håstad, Ola Petersson
May 1994 **Proceedings of the twenty-sixth annual ACM symposium on Theory of computing**
Full text available: pdf(890.71 KB) Additional Information: full citation, references, citings, index terms

29 Technique for automatically correcting words in text
Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
Full text available: pdf(6.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

30 Access methods for text
Chris Faloutsos
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1
Full text available: pdf(2.59 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper compares text retrieval methods intended for office systems. The operational requirements of the office environment are discussed, and retrieval methods from database systems and from information retrieval systems are examined. We classify these methods and examine the most interesting representatives of each class. Attempts to speed up retrieval with special purpose hardware are also presented, and issues such as approximate string matching and compression are discussed. A quali ...

31 Fast searching on compressed text allowing errors
Edleno Silva de Moura, Gonzalo Navarro, Nivio Ziviani, Ricardo Baeza-Yates
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

32 Matching and searching analysis for parallel hardware implementation on FPGAs
Pablo Moisset, Pedro Diniz, Joonseok Park
February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**
Full text available: pdf(186.03 KB) Additional Information: full citation, abstract, references, index terms

Matching and searching computations play an important role in the indexing of data. These computations are typically encoded in very tight loops with a single index variable and a simple search/ matching predicate. Their inherent sequential nature, either because of data dependences but more often because of very strong control dependences, makes it

impossible to apply existing data dependence and parallelization analysis to exploit significant levels parallelism on traditional architecture ...

33 Information gathering in the World-Wide Web: the W3QL query language and the W3QS system
David Konopnicki, Oded Shmueli
December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system

34 A microprogrammed search controller for a text scanning processor
F. J. Burkowski
March 1980 **ACM SIGIR Forum , Proceedings of the fifth workshop on Computer architecture for non-numeric processing**, Volume 15 Issue 2

Full text available: pdf(692.29 KB) Additional Information: full citation, abstract, references, index terms

The objective of the research in this paper is the design of a non-numeric processor to be used in the scanning of textual information brought in from serial storage. Source text progresses through a linear array of 32 cells each cell capable of holding one character. With all cells operating in parallel, character subsequences in the source stream can be compared with character strings in any one of 16 registers associated with the cellular array. Various modules associated with the array ...

35 On the encipherment of search trees and random access files
R. Bayer, J. K. Metzger
March 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 1

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

The securing of information in indexed, random access files by means of privacy transformations must be considered as a problem distinct from that for sequential files. Not only must processing overhead due to encrypting be considered, but also threats to encipherment arising from updating and the file structure itself must be countered. A general encipherment scheme is proposed for files maintained in a paged structure in secondary storage. This is applied to the encipherment of indexes or ...

Keywords: B-trees, cryptography, encipherment, indexed sequential files, indexes, paging, privacy, privacy transformation, protection, random access files, search trees, security

36 On the use of regular expressions for searching text
Charles L. A. Clarke, Gordon V. Cormack
May 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 3

Full text available: pdf(221.79 KB) Additional Information: full citation, abstract, references, citings, index

terms

The use of regular expressions for text search is widely known and well understood. It is then surprising that the standard techniques and tools prove to be of limited use for searching structured text formatted with SGML or similar markup languages. Our experience with structured text search has caused us to reexamine the current practice. The generally accepted rule of "leftmost longest match" is an unfortunate choice and is at the root of the difficulties. We instead propose ...

Keywords: SGML, regular expressions, regular languages

37 Posters: Efficient K-NN search in polyphonic music databases using a lower bounding mechanism

Ning-Han Liu, Yi-Hung Wu, Arbee L. P. Chen

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(506.60 KB) Additional Information: full citation, abstract, references, index terms

Querying polyphonic music from a large data collection is an interesting and challenging topic. Recently, researchers attempt to provide efficient techniques for content-based retrieval in polyphonic music databases where queries can also be polyphonic. However, most of the techniques do not perform the approximate matching well. In this paper, we present a novel method to efficiently retrieve k music works that contain segments most similar to the user query based on the edit distance. A list-b ...

Keywords: indexing methods, lower bounded edit distance, polyphonic music information retrieval, search process

38 Parallel text search methods

Gerard Salton, Chris Buckley

February 1988 **Communications of the ACM**, Volume 31 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A comparison of recently proposed parallel text search methods to alternative available search strategies that use serial processing machines suggests parallel methods do not provide large-scale gains in either retrieval effectiveness or efficiency.

39 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

40 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available: pdf(316.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

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1 Fast string searching in secondary storage: theoretical developments and experimental results

Paolo Ferragina, Roberto Grossi

January 1996 **Proceedings of the seventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms

2 The string B-tree: a new data structure for string search in external memory and its applications

Paolo Ferragina, Roberto Grossi

March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2

Full text available: pdf(363.37 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia tries for internal-node indices that is made more effective by adding extra pointers to speed up search and update operations. Consequently, the String B-Tree overcomes the theoretical limitations of inverted files, B-trees, prefix B-trees, s ...

Keywords: B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

3 Provably sensitive indexing strategies for biosequence similarity search

Jeremy Buhler

April 2002 **Proceedings of the sixth annual international conference on Computational biology**

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

The field of algorithms for pairwise biosequence similarity search is dominated by heuristic methods of high efficiency but uncertain sensitivity. One reason that more formal string matching algorithms with sensitivity guarantees have not been applied to biosequences is that they cannot directly find similarities that score highly under *substitution score functions*

such as the DNAPAM-TT [20], PAM [9], or BLOSUM [12] families of matrices. We describe a general technique, *score simulatio ...*

4 Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract)
Roberto Grossi, Jeffrey Scott Vitter
May 1999 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**
Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

5 On effective multi-dimensional indexing for strings
H. V. Jagadish, Nick Koudas, Divesh Srivastava
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

As databases have expanded in scope from storing purely business data to include XML documents, product catalogs, e-mail messages, and directory data, it has become increasingly important to search databases based on wild-card string matching: prefix matching, for example, is more common (and useful) than exact matching, for such data. In many cases, matches need to be on multiple attributes/dimensions, with correlations between the dimensions. Traditional multi-dimensional index structures, ...

6 Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts
Yasusi Kanada
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

7 All searches are divided into three parts: string searches using ternary trees
David E. Siegel
July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3
Full text available: pdf(702.49 KB) Additional Information: full citation, abstract, references, index terms

This paper considers the problem of searching for strings in a dictionary or symbol table. It presents a data structure which can be used for this purpose---the Ternary Tree. It considers the theoretical properties of this structure, compared with other possible structures for the same purpose. It presents an implementation of this structure in APL, including code to do a variety of operations on it.

Keywords: data structure, dictionary search, radix search, search algorithms, search tree, symbol table, ternary tree

8 Implementing a faster string search algorithm in Ada
P. Wood, D. Turcaso
April 1988 **ACM SIGAda Ada Letters**, Volume VIII Issue 3
Full text available: pdf(413.45 KB) Additional Information: full citation, index terms

9 Posters: Efficient K-NN search in polyphonic music databases using a lower bounding mechanism

Ning-Han Liu, Yi-Hung Wu, Arbee L. P. Chen

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(506.60 KB) Additional Information: full citation, abstract, references, index terms

Querying polyphonic music from a large data collection is an interesting and challenging topic. Recently, researchers attempt to provide efficient techniques for content-based retrieval in polyphonic music databases where queries can also be polyphonic. However, most of the techniques do not perform the approximate matching well. In this paper, we present a novel method to efficiently retrieve k music works that contain segments most similar to the user query based on the edit distance. A list-b ...

Keywords: indexing methods, lower bounded edit distance, polyphonic music information retrieval, search process

10 Poster Sessions: Chinese string searching using the KMP algorithm

Robert W. P. Luk

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Full text available: pdf(397.79 KB) Additional Information: full citation, abstract, references

This paper is about the modification of KMP (Knuth, Morris and Pratt) algorithm for string searching of Chinese text. The difficulty is searching through a text string of single-and multi-byte characters. We showed that proper decoding of the input as sequences of characters instead of bytes is necessary. The standard KMP algorithm can easily be modified for Chinese string searching but at the worst-case time-complexity of *O(3n)* in terms of the number of comparisons. The finite-automaton ...

11 Fast text searching for regular expressions or automaton searching on tries

Ricardo A. Baeza-Yates, Gaston H. Gonnet

November 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 6

Full text available: pdf(584.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present algorithms for efficient searching of regular expressions on preprocessed text, using a Patricia tree as a logical model for the index. We obtain searching algorithms that run in logarithmic expected time in the size of the text for a wide subclass of regular expressions, and in sublinear expected time for any regular expression. This is the first such algorithm to be found with this complexity.

12 Database indexing for large DNA and protein sequence collections

Ela Hunt, Malcolm P. Atkinson, Robert W. Irving

November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 3

Full text available: pdf(199.78 KB) Additional Information: full citation, abstract, citings, index terms

Our aim is to develop new database technologies for the approximate matching of unstructured string data using indexes. We explore the potential of the suffix tree data structure in this context. We present a new method of building suffix trees, allowing us to build trees in excess of RAM size, which has hitherto not been possible. We show that this method performs in practice as well as the $O(n)$ method of Ukkonen [70]. Using this method we build indexes for 200 Mb of protein and 3 ...

Keywords: Approximate matching, Biological sequence, Database index, Suffix tree

13 Index-driven similarity search in metric spaces
Gisli R. Hjaltason, Hanan Samet
December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(650.64 KB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set *S* similar to a query object *q*, based on some similarity measure. In this article, we focus on methods for similarity search that make the general assumption that similarity is represented with a distance metric *d*. Existing methods for handling similarity search in this setting typically fall into one of ...

Keywords: Hiearchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

14 Efficient string matching: an aid to bibliographic search
Alfred V. Aho, Margaret J. Corasick
June 1975 **Communications of the ACM**, Volume 18 Issue 6

Full text available: pdf(733.78 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a simple, efficient algorithm to locate all occurrences of any of a finite number of keywords in a string of text. The algorithm consists of constructing a finite state pattern matching machine from the keywords and then using the pattern matching machine to process the text string in a single pass. Construction of the pattern matching machine takes time proportional to the sum of the lengths of the keywords. The number of state transitions made by the pattern matching ...

Keywords: bibliographic search, computational complexity, finite state machines, information retrieval, keywords and phrases, string pattern matching, text-editing

15 RE-tree: an efficient index structure for regular expressions
Chee-Yong Chan, Minos Garofalakis, Rajeev Rastogi
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2

Full text available: pdf(346.00 KB) Additional Information: full citation, abstract, index terms

Abstract.Due to their expressive power, regular expressions (REs) are quickly becoming an integral part of language specifications for several important application scenarios. Many of these applications have to manage huge databases of RE specifications and need to provide an effective matching mechanism that, given an input string, quickly identifies the REs in the database that match it. In this paper, we propose the RE-tree, a novel index structure for large databases of RE specifications. Gi ...

Keywords: Index structure, Regular expressions, Sampling-based approximations, Size measures

16 Information retrieval with APL by adaptive index and user guidance
Hans-Joerg Schek, Georg Walch
May 1979 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference**

on APL: part 1, Volume 9 Issue 4

Full text available: pdf(619.22 KB) Additional Information: full citation, abstract, references, index terms

A system is described applicable for information retrieval and update both in formatted and unformatted files containing non-numerical data. It uses a new reference-string indexing technique which supports partial-match queries and similar-record search. The reference-string index is adapted to data usage or data. Those parts of records which are estimated by the program to be specified very often in queries are included as reference strings and inverted. For data access in the retrieval ph ...

17 Matching and searching analysis for parallel hardware implementation on FPGAs

Pablo Moisset, Pedro Diniz, Joonseok Park

February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**

Full text available: pdf(186.03 KB) Additional Information: full citation, abstract, references, index terms

Matching and searching computations play an important role in the indexing of data. These computations are typically encoded in very tight loops with a single index variable and a simple search/ matching predicate. Their inherent sequential nature, either because of data dependences but more often because of very strong control dependences, makes it impossible to apply existing data dependence and parallelization analysis to exploit significant levels parallelism on traditional architecture ...

18 An experimental study of an opportunistic index

Paolo Ferragina, Giovanni Manzini

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(785.55 KB) Additional Information: full citation, abstract, references, citings, index terms

The size of electronic data is currently growing at a faster rate than computer memory and disk storage capacities. For this reason *compression* appears always as an attractive choice, if not mandatory. However space overhead is not the only resource to be optimized when managing large data collections; in fact data turn out to be useful only when properly *indexed* to support search operations that efficiently extract the user-requested information.

Approaches to combine c ...

19 The Jungle database search engine

Michael Böhlen, Linas Bukauskas, Curtis Dyreson

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available: pdf(382.61 KB) Additional Information: full citation, abstract, references, index terms

Information spread in in databases cannot be found by current search engines. A database search engine is capable to access and advertise database on the WWW. Jungle is a database search engine prototype developed at Aalborg University. Operating through JDBC connections to remote databases, Jungle extracts and indexes database data and meta-data, building a data store of database information. This information is used to evaluate and optimize queries in the AQUA query language. AQUA is a na ...

20 A linear lower bound on index size for text retrieval

Erik D. Demaine, Alejandro López-Ortiz

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(438.99 KB) Additional Information: full citation, abstract, references, index terms

Most information-retrieval systems preprocess the data to produce an auxiliary index structure. Empirically, it has been observed that there is a tradeoff between query response time and the size of the index. When indexing a large corpus, such as the web, the size of the index is an important consideration. In this case it would be ideal to produce an index that is substantially smaller than the text.

In this work we prove a linear lower bound on the size of any index that reports th ...

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1 Intelligent search techniques for large software systems

Huixiang Liu, Timothy C. Lethbridge

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(145.13 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a study of what we call intelligent search techniques as implemented in a software exploration environment, whose purpose is to facilitate software maintenance. The paper first introduces the intelligent search techniques used in our study, including abbreviation contraction and abbreviation expansion. Then it describes in detail the rating algorithms used to evaluate the query results' similarity to the original query strings. Next, we describe a series of experiments we co ...

2 Approximate String Matching

Patrick A. V. Hall, Geoff R. Dowling

December 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 4

Full text available: pdf(2.06 MB) Additional Information: full citation, references, citings, index terms

3 Knowledge-based search tactics for an intelligent intermediary system

Philip J. Smith, Steven J. Shute, Beb Galdes, Mark H. Chignell

July 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research on the nature of knowledge-based systems for bibliographic information retrieval is summarized. Knowledge-based search tactics are then considered in terms of their role in the functioning of a semantically based search system for bibliographic information retrieval, EP-X. This system uses such tactics to actively assist users in defining or refining their topics of interest. It does so by applying these tactics to a knowledge base describing topics in a particular domain and to a ...

4 A guided tour to approximate string matching

Gonzalo Navarro

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index

terms, review

We survey the current techniques to cope with the problem of string matching that allows errors. This is becoming a more and more relevant issue for many fast growing areas such as information retrieval and computational biology. We focus on online searching and mostly on edit distance, explaining the problem and its relevance, its statistical behavior, its history and current developments, and the central ideas of the algorithms and their complexities. We present a number of experiments to ...

Keywords: Levenshtein distance, edit distance, online string matching, text searching allowing errors

5 Implementing a faster string search algorithm in Ada
P. Wood, D. Turcaso
April 1988 **ACM SIGAda Ada Letters**, Volume VIII Issue 3
Full text available: pdf(413.45 KB) Additional Information: full citation, index terms

6 Searching in metric spaces
Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3
Full text available: pdf(916.04 KB) Additional Information: full citation, abstract, references, citings, index terms

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

7 Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts
Yasusi Kanada
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

8 Comparative analysis of hardware versus software text search
Peter Kracsony, Gerald Kowalski, Arnold Meltzer
June 1980 **Proceedings of the 3rd annual ACM conference on Research and development in information retrieval**
Full text available: pdf(515.52 KB) Additional Information: full citation, references, citings

9 Efficient generation of lexically proper palindromes
Richard Rankin, Hal Berghel, T. Xu
February 1990 **Proceedings of the 1990 ACM SIGSMALL/PC symposium on Small systems**

Full text available: pdf(560.74 KB) Additional Information: full citation, abstract, references, index terms

Palindromes are strings of symbols which are symmetrical about the center. This paper outlines a method for generating certain types of palindromes, called lexical palindromes, which consist of legitimate English words. The method reported provides substantial pruning of a Prolog search tree by calculating the number of success nodes along certain search paths instead of visiting them, indexing words to improve database performance, and continuous analysis of current states to eliminate non ...

10 A new string search hardware architecture for VLSI

K. Takahashi, H. Yamada, H. Nagai, K. Matsumi

June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture**, Volume 14 Issue 2

Full text available: pdf(683.39 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new architecture for practical string search hardware design. This architecture is based on the finite state automaton design concept using a character control charge transfer model. The resultant hardware is a set of programmable sequential logic (PSL) circuits, each of which consists of a sequential logic and memory parts. The logic part is an array of logical gates, each of which is controlled by the read-out signal from the memory part, to connect the flip-flops. T ...

11 The string B-tree: a new data structure for string search in external memory and its applications

Paolo Ferragina, Roberto Grossi

March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2

Full text available: pdf(363.37 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia tries for internal-node indices that is made more effective by adding extra pointers to speed up search and update operations. Consequently, the String B-Tree overcomes the theoretical limitations of inverted files, B-trees, prefix B-trees, s ...

Keywords: B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

12 Software evolution: Generating programming language-based pattern matchers

Santanu Paul, Atul Prakash

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references

This paper is based on a logical extension of our past work in pattern matching tools [22, 24, 25] for reverse engineering. We explore two new directions: first, we investigate the need for new and more powerful source code and pattern representations to support a richer set of queries; and second, we develop the concept of automatic generation of pattern matchers for different programming languages starting from a high-level specification of the programming language. A generator will eliminate ...

13 Height in a digital search tree and the longest phrase of the Lempel-Ziv scheme

Charles Knessl, Wojciech Szpankowski

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete**

algorithms
Full text available: pdf(797.22 KB) Additional Information: full citation, references, index terms

14 Burst tries: a fast, efficient data structure for string keys
April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2
Full text available: pdf(324.84 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

15 1 - Regular Articles: Average-optimal single and multiple approximate string matching
Kimmo Fredriksson, Gonzalo Navarro
April 2005 **Journal of Experimental Algorithmics (JEA)**, Volume 9 Issue es
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, index terms

We present a new algorithm for multiple approximate string matching. It is based on reading backwards enough l-grams from text windows so as to prove that no occurrence can contain the part of the window read, and then shifting the window.We show analytically that our algorithm is optimal on average. Hence our first contribution is to fill an important gap in the area, since no average-optimal algorithm existed for multiple approximate string matching.We consider several variants and practical i ...

Keywords: Algorithms, approximate string matching, biological sequences, multiple string matching, optimality

16 Error-tolerant finite-state recognition with applications to morphological analysis and spelling correction
Kemal Oflazer
March 1996 **Computational Linguistics**, Volume 22 Issue 1
Full text available: pdf(1.02 MB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper presents the notion of error-tolerant recognition with finite-state recognizers along with results from some applications. Error-tolerant recognition enables the recognition of strings that deviate mildly from any string in the regular set recognized by the underlying finite-state recognizer. Such recognition has applications to error-tolerant morphological processing, spelling correction, and approximate string matching in information retrieval. After a description of the concepts an ...

17 All searches are divided into three parts: string searches using ternary trees
David E. Siegel
July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3
Full text available: pdf(702.49 KB) Additional Information: full citation, abstract, references, index terms

This paper considers the problem of searching for strings in a dictionary or symbol table. It presents a data structure which can be used for this purpose---the Ternary Tree. It considers the theoretical properties of this structure, compared with other possible structures for the same purpose. It presents an implementation of this structure in APL, including code to do a variety of operations on it.

Keywords: data structure, dictionary search, radix search, search algorithms, search tree, symbol table, ternary tree

18 A text compression scheme that allows fast searching directly in the compressed file
Udi Manber
April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Full text available: pdf(291.64 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A new text compression scheme is presented in this article. The main purpose of this scheme is to speed up string matching by searching the compressed file directly. The scheme requires no modification of the string-matching algorithm, which is used as a black box; any string-matching procedure can be used. Instead, the pattern is modified; only the outcome of the matching of the modified pattern against the compressed file is decompressed. Since the compressed file is smal ...

Keywords: data compression search

19 A fast string searching algorithm
Robert S. Boyer, J. Strother Moore
October 1977 **Communications of the ACM**, Volume 20 Issue 10

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings

An algorithm is presented that searches for the location, "il" of the first occurrence of a character string, "pat," in another string, "string." During the search operation, the characters of pat are matched starting with the last character of pat. The information gained by starting the match at the end of the pattern often allows the algorithm to proceed in large jumps ...

Keywords: bibliographic search, computational complexity, information retrieval, linear time bound, pattern matching, text editing

20 On the use of regular expressions for searching text
Charles L. A. Clarke, Gordon V. Cormack
May 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 3

Full text available: pdf(221.79 KB) Additional Information: full citation, abstract, references, citings, index terms

The use of regular expressions for text search is widely known and well understood. It is then surprising that the standard techniques and tools prove to be of limited use for searching structured text formatted with SGML or similar markup languages. Our experience with structured text search has caused us to reexamine the current practice. The generally accepted rule of "leftmost longest match" is an unfortunate choice and is at the root of the difficulties. We instead propose ...

Keywords: SGML, regular expressions, regular languages

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1 Parsing of Graph-Representable Pictures

Alan C. Shaw

July 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 3

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings, index terms

A syntax-directed picture analysis system based on a formal picture description scheme is described. The system accepts a description of a set of pictures in terms of a grammar generating strings in a picture description language; the grammar is explicitly used to direct the analysis or parse, and to control the calls on pattern classification routines for primitive picture components. Pictures are represented by directed graphs with labeled edges, where the edges denote elementary picture ...

2 Probabilistic top-down parsing and language modeling

Brian Roark

June 2001 **Computational Linguistics**, Volume 27 Issue 2

Full text available: pdf(1.99 MB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper describes the functioning of a broad-coverage probabilistic top-down parser, and its application to the problem of language modeling for speech recognition. The paper first introduces key notions in language modeling and probabilistic parsing, and briefly reviews some previous approaches to using syntactic structure for language modeling. A lexicalized probabilistic top-down parser is then presented, which performs very well, in terms of both the accuracy of returned parses and the ef ...

3 Approximate String Matching

Patrick A. V. Hall, Geoff R. Dowling

December 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 4

Full text available: pdf(2.06 MB) Additional Information: full citation, references, citings, index terms

4 Session: The problem of computing the most probable tree in data-oriented parsing and stochastic tree grammars

Rens Bod

March 1995 **Proceedings of the seventh conference on European chapter of the**

Association for Computational Linguistics

Full text available: pdf(815.80 KB) Publisher Site Additional Information: full citation, abstract, references, citings

We deal with the question as to whether there exists a polynomial time algorithm for computing the most probable parse tree of a sentence generated by a data-oriented parsing (DOP) model. (Scha, 1990; Bod, 1992, 1993a). Therefore we describe DOP as a stochastic tree-substitution grammar (STSG). In STSG, a tree can be generated by exponentially many derivations involving different elementary trees. The probability of a tree is equal to the sum of the probabilities of all its derivations.We show t ...

5 Height in a digital search tree and the longest phrase of the Lempel-Ziv scheme

Charles Knessl, Wojciech Szpankowski

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(797.22 KB) Additional Information: full citation, references, index terms

6 Control structure aptness: A case study using top-down parsing

Gary Lindstrom

May 1978 **Proceedings of the 3rd international conference on Software engineering**

Full text available: pdf(739.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The range of control structures available in a higher-level programming language directly governs the set of algorithms conveniently programmable therein. This fact has been well-demonstrated by the salutary effect the ideas of structured programming have had on traditional control structures (sequential, iterative, and procedural). This paper seeks to demonstrate this same fact for more advanced control structures through the use of top-down parsing as a case study. A series of increasingl ...

7 Student session: On reversing the generation process in Optimality Theory

J. Eric Fosler

June 1996 **Proceedings of the 34th conference on Association for Computational Linguistics**

Full text available: pdf(317.49 KB) Publisher Site Additional Information: full citation, abstract, references

Optimality Theory, a constraint-based phonology and morphology paradigm, has allowed linguists to make elegant analyses of many phenomena, including infixation and reduplication. In this work-in-progress, we build on the work of Ellison (1994) to investigate the possibility of using OT as a parsing tool that derives underlying forms from surface forms.

8 Head automata and bilingual tiling: translation with minimal representations

Hiyan Alshawi

June 1996 **Proceedings of the 34th conference on Association for Computational Linguistics**

Full text available: pdf(1.06 MB) Publisher Site Additional Information: full citation, abstract, references, citings

We present a language model consisting of a collection of costed bidirectional finite state automata associated with the head words of phrases. The model is suitable for incremental application of lexical associations in a dynamic programming search for optimal dependency tree derivations. We also present a model and algorithm for machine translation involving

optimal "tiling" of a dependency tree with entries of a costed bilingual lexicon. Experimental results are reported comparing methods for ...

9 The FINITE STRING newsletter: Abstracts of current literature
Computational Linguistics Staff
July 1984 **Computational Linguistics**, Volume 10 Issue 3-4
Full text available: pdf(2.30 MB) Publisher Site Additional Information: full citation

10 LeZi-update: an information-theoretic approach to track mobile users in PCS networks
Amiya Bhattacharya, Sajal K. Das
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
Full text available: pdf(1.59 MB) Additional Information: full citation, references, citings, index terms

11 Tree-adjoining grammar parsing and boolean matrix multiplication
Giorgio Satta
June 1994 **Computational Linguistics**, Volume 20 Issue 2
Full text available: pdf(1.20 MB) Publisher Site Additional Information: full citation, abstract, references, citings

The computational problem of parsing a sentence in a tree-adjoining language is investigated. An interesting relation is studied between this problem and the well-known computational problem of Boolean matrix multiplication: it is shown that any algorithm for the solution of the former problem can easily be converted into an algorithm for the solution of the latter problem. This result bears on at least two important computational issues. First, we realize that a straightforward method that impr ...

12 LeZi-update: an information-theoretic framework for personal mobility tracking in PCS networks
Amiya Bhattacharya, Sajal K. Das
March 2002 **Wireless Networks**, Volume 8 Issue 2/3
Full text available: pdf(262.29 KB) Additional Information: full citation, abstract, references, citings, index terms

The complexity of the mobility tracking problem in a cellular environment has been characterized under an information-theoretic framework. Shannon's entropy measure is identified as a basis for comparing user mobility models. By building and maintaining a dictionary of individual user's *path* updates (as opposed to the widely used location updates), the proposed adaptive on-line algorithm can learn subscribers' profiles. This technique evolves out of the concepts of lossless compression. T ...

Keywords: LZ78 compression, entropy, location management, mobility model, paging, update

13 Parsing strategies with 'lexicalized' grammars: application to tree adjoining grammars
Yves Schabes, Anne Abeille, Aravind K. Joshi
August 1988 **Proceedings of the 12th conference on Computational linguistics - Volume 2**
Full text available: pdf(621.16 KB) Additional Information: full citation, abstract, references, citings

In this paper we present a general parsing strategy that arose from the development of an Earley-type parsing algorithm for TAGs (Schabes and Joshi 1988) and from recent linguistic work in TAGs (Abeille 1988).In our approach elementary structures are associated with their lexical heads. These structures specify extended domains of locality (as compared to a context-free grammar) over which constraints can be stated. These constraints either hold within the elementary structure itself or specify ...

14 The FINITE STRING newsletter: Abstracts of current literature
Computational Linguistics Staff
July 1986 **Computational Linguistics**, Volume 12 Issue 3
Full text available: pdf(2.25 MB) Publisher Site Additional Information: full citation

15 The string edit distance matching problem with moves
Graham Cormode, S. Muthukrishnan
January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings

The edit distance between two strings *S* and *R* is defined to be the minimum number of character inserts, deletes and changes needed to convert *R* to *S*. Given a text string *t* of length *n*, and a pattern string *p* of length *m*, informally, the string edit distance matching problem is to compute the smallest edit distance between *p* and substrings of *t*. A well known dynamic programming algorithm takes time $O(nm)$ to solve ...

16 Papers: Generation of paraphrases from ambiguous logical forms
Hadar Shemtov
August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**
Full text available: pdf(563.26 KB) Additional Information: full citation, abstract, references

This paper presents a method for generating multiple paraphrases from ambiguous logical forms. The method is based on a chart structure with edges indexed on semantic information and annotations that relate edges to the semantic facts they express. These annotations consist of logical expressions that identify particular realizations encoded in the chart. The method allows simultaneous generation from multiple interpretations, without hindering the generation process or causing any work to be su ...

17 Papers: Restricted parallelism in object-oriented lexical parsing
Peter Neuhaus, Udo Hahn
August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 1**
Full text available: pdf(656.57 KB) Additional Information: full citation, abstract, references

We present an approach to parallel natural language parsing which is based on a concurrent, object-oriented model of computation. A depth-first, yet incomplete parsing algorithm for a dependency grammar is specified and several restrictions on the degree of its parallelization are discussed.

18 An efficient insertion-only error-corrector for LL(1) parsers
C. N. Fischer, D. R. Milton, S. B. Quiring
January 1977 **Proceedings of the 4th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available: pdf(474.04 KB) Additional Information: full citation, abstract, references, citings

An LL(1)-based error-corrector which operates by "insertion-only" is studied. The corrector is able to correct and parse any input string. It is efficient (linear in space and time requirements) and chooses least-cost insertions (as defined by the user) in correcting syntax errors. Moreover, the error-corrector can be generated automatically from the grammar and a table of terminal symbol insertion costs. The class of LL(1) grammars correctable by this method contains (with minor modifications) ...

19 Modeling for text compression

Timothy Bell, Ian H. Witten, John G. Cleary

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Full text available: pdf(3.54 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The best schemes for text compression use large models to help them predict which characters will come next. The actual next characters are coded with respect to the prediction, resulting in compression of information. Models are best formed adaptively, based on the text seen so far. This paper surveys successful strategies for adaptive modeling that are suitable for use in practical text compression systems. The strategies fall into three main classes: finite-context modeling, i ...

20 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(6.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

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1 String storage and searching for data base applications: implementation on the INDY backend kernel

George P. Copeland

August 1978 , Volume 10 , 13 , 7 Issue 1 , 2 , 2

Full text available: pdf(986.51 KB) Additional Information: full citation, abstract, references

User and hardware cost trends dictate that data base systems should provide more complete functionality, simplicity of use, and reliability by increasing the amount of hardware present in the system. These goals are accomplished with a simple hardware arrangement within a one-dimensional cellular storage system called INDY. The INDY backend kernel is intended as a powerful tool for implementing all data models. The INDY cellular storage array is intended to provide functionality that is difficul ...

2 String storage and searching for data base applications: Implementation on the INDY backend kernel

George P. Copeland

August 1978 **Proceedings of the fourth workshop on Computer architecture for non-numeric processing**

Full text available: pdf(854.23 KB) Additional Information: full citation, abstract, references, citings, index terms

User and hardware cost trends dictate that data base systems should provide more complete functionality, simplicity of use, and reliability by increasing the amount of hardware present in the system. These goals are accomplished with a simple hardware arrangement within a one-dimensional cellular storage system called INDY. The INDY backend kernel is intended as a powerful tool for implementing all data models. The INDY cellular storage array is intended to provide functionality that is dif ...

3 Fast and flexible word searching on compressed text

Edleno Silva de Moura, Gonzalo Navarro, Nivio Ziviani, Ricardo Baeza-Yates

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Full text available: pdf(165.20 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a fast compression technique for natural language texts. The novelties are that (1) decompression of arbitrary portions of the text can be done very efficiently, (2) exact search for words and phrases can be done on the compressed text directly, using any known sequential pattern-matching algorithm, and (3) word-based approximate and

extended search can also be done efficiently without any decoding. The compression scheme uses a semistatic word-based model and a Huffman code wher ...

Keywords: compressed pattern matching, natural language text compression, word searching, word-based Huffman coding

4 1 - Regular Articles: Average-optimal single and multiple approximate string matching
Kimmo Fredriksson, Gonzalo Navarro
April 2005 **Journal of Experimental Algorithmics (JEA)**, Volume 9 Issue es

Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, index terms

We present a new algorithm for multiple approximate string matching. It is based on reading backwards enough l-grams from text windows so as to prove that no occurrence can contain the part of the window read, and then shifting the window.We show analytically that our algorithm is optimal on average. Hence our first contribution is to fill an important gap in the area, since no average-optimal algorithm existed for multiple approximate string matching.We consider several variants and practical i ...

Keywords: Algorithms, approximate string matching, biological sequences, multiple string matching, optimality

5 Fast text searching: allowing errors
Sun Wu, Udi Manber
October 1992 **Communications of the ACM**, Volume 35 Issue 10

Full text available: pdf(5.33 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: approximate string matching, information retrieval, pattern matching, software tools, string searching

6 A guided tour to approximate string matching
Gonzalo Navarro
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We survey the current techniques to cope with the problem of string matching that allows errors. This is becoming a more and more relevant issue for many fast growing areas such as information retrieval and computational biology. We focus on online searching and mostly on edit distance, explaining the problem and its relevance, its statistical behavior, its history and current developments, and the central ideas of the algorithms and their complexities. We present a number of experiments to ...

Keywords: Levenshtein distance, edit distance, online string matching, text searching allowing errors

7 A new approach to text searching
Ricardo Baeza-Yates, Gaston H. Gonnet
October 1992 **Communications of the ACM**, Volume 35 Issue 10

Full text available: pdf(5.31 MB) Additional Information: full citation, references, citings, index terms

Keywords: string matching, text searching

8 A microprogrammed search controller for a text scanning processor
F. J. Burkowski
March 1980 **ACM SIGIR Forum , Proceedings of the fifth workshop on Computer architecture for non-numeric processing**, Volume 15 Issue 2
Full text available: pdf(692.29 KB) Additional Information: full citation, abstract, references, index terms

The objective of the research in this paper is the design of a non-numeric processor to be used in the scanning of textual information brought in from serial storage. Source text progresses through a linear array of 32 cells each cell capable of holding one character. With all cells operating in parallel, character subsequences in the source stream can be compared with character strings in any one of 16 registers associated with the cellular array. Various modules associated with the array ...

9 Fast searching on compressed text allowing errors
Edleno Silva de Moura, Gonzalo Navarro, Nivio Ziviani, Ricardo Baeza-Yates
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

10 Associative Processor Architecture—a Survey
S. S. Yau, H. S. Fung
January 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 1
Full text available: pdf(1.87 MB) Additional Information: full citation, references, citings, index terms

11 Exploiting parallelism in pattern matching: an information retrieval application
Victor Wing-Kit Mak, Kuo Chu Lee, Ophir Frieder
January 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 1
Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We propose a document-searching architecture based on high-speed hardware pattern matching to increase the throughput of an information retrieval system. We also propose a new parallel VLSI pattern-matching algorithm called the Data Parallel Pattern Matching (DPPM) algorithm, which serially broadcasts and compares the pattern to a block of data in parallel. The DPPM algorithm utilizes the high degree of integration of VLSI technology to attain very high-speed processing through parallelism. ...

Keywords: DPPM, pattern matcher

12 A new approach to text searching
R. A. Baeza-Yates, G. H. Gonnet
May 1989 **ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 23 Issue 1-2
Full text available: pdf(591.96 KB) Additional Information: full citation, abstract, citings, index terms

We introduce a family of simple and fast algorithms for solving the classical string matching

problem, string matching with don't care symbols and complement symbols, and multiple patterns. In addition we solve the same problems allowing up to k mismatches. Among the features of these algorithms are that they are real time algorithms, they don't need to buffer the input, and they are suitable to be implemented in hardware.

13 Fortran 8X draft

Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Full text available: pdf(21.36 MB) Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

14 Operational characteristics of a harware-based pattern matcher

Roger L. Haskin, Lee A. Hollaar

March 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 1

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms

The design and operation of a new class of hardware-based pattern matchers, such as would be used in a backended database processor in a full-text or other retrieval system, is presented. This recognizer is based on a unique implementation technique for finite state automata consisting of partitioning the state table among a number of simple digital machines. It avoids the problems generally associated with implementing finite state machines, such as large state table memories, complex cont ...

Keywords: backend processors, computer system architecture, finite state automata, full text retrieval systems, text searching

15 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

16 Hardware for searching very large text databases

Roger Haskin

March 1980 **ACM SIGIR Forum , Proceedings of the fifth workshop on Computer architecture for non-numeric processing**, Volume 15 Issue 2

Full text available: pdf(812.50 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the problem of searching very large text databases. It is shown that conventional techniques for searching current databases cannot be scaled up to larger ones, and that it is necessary to build hardware to search the database in parallel if reasonable

search times are expected. The part of the search process requiring the highest bandwidth is scanning the database to detect instances of search terms. Methods of doing this in hardware that have been mentioned in the lit ...

17 Fitting processors to the needs of a General Purpose Array (EGPA)
Wolfgang Händler, Rainer Klar
September 1975 **Proceedings of the 8th annual workshop on Microprogramming**

Full text available: pdf(781.81 KB) Additional Information: full citation, abstract, references, citings, index terms

1.1 General Purpose Processor The vast majority of contemporary processors can be described as general purpose processors (GPP), with a structure often referred to as "von Neumann". 1.2 Associative Array Processor In addition special processors have been developed for dedicated applications, some involving parallel processing. The associative array processors (AAP) [2] or the synchronous array pro ...

18 Microprocessors for non-numeric processing
S. G. Zaky
January 1977 **Proceedings of the 3rd workshop on Computer architecture : Non-numeric processing**, Volume 6 , 9 , 12 Issue 2 , 2 , 1

Full text available: pdf(629.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The problem of processing of non-numeric data has received considerable attention in the last few years. This is primarily motivate by the pressing needs in the are a of data base management. It has long been recognized that the parallel processing capabilities of an associative processor are fundamentally well suited to this environment. However, the complexity and cost of truely associative memories make this approach impractical. In this paper, the demands that non-numeric processing pla ...

19 Information Retrieval: PEEKABIT, computer offspring of punched card PEEKABOO, for natural language searching
Fred C. Hutton
September 1968 **Communications of the ACM**, Volume 11 Issue 9

Full text available: pdf(578.18 KB) Additional Information: full citation, abstract, references

The "peekaboo" idea from punched card information retrieval methods has been mated with the idea of superimposed punching to produce a programming technique which cuts computer run time in half on a test search of 33,000 subject index entries. A search program using the device has been operational since late 1963. As an item is entered in the store, an 18-byte mask is created from the item's meaningful words using the inclusive OR operation. If, at search time, the logical produ ...

Keywords: computer search technique, information compaction, natural language searching, peekaboo, superimposed coding, text searching

20 An efficient normalized maximum likelihood algorithm for DNA sequence compression
Gergely Korodi, Ioan Tabus
January 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 1

Full text available: pdf(426.79 KB) Additional Information: full citation, abstract, references, index terms

This article presents an efficient algorithm for DNA sequence compression, which achieves the best compression ratios reported over a test set commonly used for evaluating DNA compression programs. The algorithm introduces many refinements to a compression method that combines: (1) encoding by a simple normalized maximum likelihood (NML)

model for discrete regression, through reference to preceding approximate matching blocks, (2) encoding by a first order context coding and (3) representing str ...

Keywords: Approximate sequence matching, DNA compression, normalized maximum likelihood model

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

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mask generating search index Search Advanced Search Preferences

Web Results **1** - **10** of about **169,000** for **mask generating search index**. (**0.15** seconds)

Searching for include files... **Searching** for example files ...
... **Generating** namespace **index**... **Generating** docs for namespace **Mask** ...
Generating page **index**... **Generating** graph info page... **Generating search index**. ...
hepwww.ph.qmul.ac.uk/l1calo/build/nightly/ logfiles/i686-rh73-gcc32-opt/monFramework.doxygen - 8k - Cached - Similar pages

Patent 5142631: System for queuing individual read or write **mask** ...
... instruction write **mask generating** means coupled to said instruction ...
that **mask** with an **index**-register from the most recently decoded specifier. ...
www.freepatentsonline.com/5142631.html - 81k - Cached - Similar pages

Novell Documentation: QuickFinder Server - Creating Indexes
... (Optional) If you want to **mask** the actual URL displayed in the **search** results
... **Generating** an **index** is the actual process where QuickFinder Server ...
www.novell.com/documentation/ qfserver40/qfserver/data/acdvio8.html - 43k - Cached - Similar pages

Circuit Specialists Inc :: View topic - **Generating** "Solder **Mask** ...
Circuit Specialists Inc Forum **Index**, Circuit Specialists Inc ... 4:56 pm Post
subject: **Generating** "Solder **Mask**" Files with PCB Wizard PRO, Reply with quote ...
www.circuitspecialists.com/ phpBB2/viewtopic.php?p=64& - 26k - Cached - Similar pages

SleepQuest - Sleep Disorders - Sleep Glossary A to Z - C **INDEX**
... and prevents collapse of the upper airway by **generating** a prescribed level of
... Air pressure is delivered through a hose to a **mask** that fits over the ...
www.sleepquest.com/s_sleeptopics_c.html - 20k - Cached - Similar pages

PSIgate - Physical Sciences Information Gateway - Web Catalogue ...
... **Search** For Term: Term (**Index**) Definition blank part of the **mask** transparent to
... laser capable of **generating** very short wavelength (below 200 nm) UV ...
www.psigate.ac.uk/roads/cgi-bin/**search**_ webcatalogue2.pl?limit=100&term1=radiation - 29k - Cached - Similar pages

> PSIgate - Physical Sciences Information Gateway - Web Catalogue ...
> ... **Search** For Term: Term (**Index**) Definition etch **mask** material blocking etching in
> ... laser capable of **generating** very short wavelength (below 200 nm) UV ...
> www.psigate.ac.uk/roads/cgi-bin/**search**_ webcatalogue2.pl?limit=875&term1=dictionary - 37k - Cached - Similar pages

Searching Products By Price - Range: 0 And 10
... Noise is used typically used to **mask** distracting sounds in a pleasing way.
... Most of the "sleep" machines on the market are based on **generating** ...
www.luxevivant.com/ **index**.asp?PageAction=PRICESEARCH&Range=0%20And%2010 - 86k - Cached - Similar pages

IIS Web Server Security - **Mask** Windows Web Server with ServerMask
... extensions is a good practice to **mask** the technology **generating** dynamic pages.
... **search** engine optimization and **search** engine marketing articles are ...
www.seoconsultants.com/articles/1000/security.asp - 29k - May 19, 2005 - Cached - Similar pages

Majordomo-Users: Wilma / Glimpse
... #INDEX_BACKGROUND = # [wilma] # Color name or **mask** for **index** page if INDEX_BACKGROUND not ... which rebuilds the **search index** for the # archives. ...
www.greatcircle.com/lists/majordomo-users/ mhonarc/majordomo-users.199906/msg00206.html - 14k - Cached - Similar pages

Gooooooooogle ▶
Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

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match character sets characters search string Search Advanced Search Preferences

Web Results **1 - 10** of about **361,000** for **match character sets characters search string bit mask**. (**0.23** sec

Did you mean: match character sets characters search string ***bitmask***

PHP: **String** Functions - Manual
... **string** to an 8 **bit string**; quotemeta -- Quote meta **characters** ... of the first n **characters**; strpbrk -- **Search** a **string** for any of a **set** of **characters** ...
php.benscom.com/manual/pl/ref.**strings**.php - 47k - Cached - Similar pages

string
... **Search** string2 for a sequence of **characters** that exactly **match** the **characters** ... **set** length [**string** length $**string**] if {$length == 0} { **set** isPrefix 0 ...
tmml.sourceforge.net/doc/tcl/**string**.html - 19k - Cached - Similar pages

Filters
... the first successful **match** in the FST, so if one of the **search strings** is ... 128 Table has top **bit set characters** (ISO standard) 64 Table has numeric ...
www.zxplus3e.plus.com/z88forever/dn327/filters.htm - 16k - Cached - Similar pages

Methods
... The **set** of **characters** to look for. **mask**, **Mask** values determining how to **search**. ... Abstract: Test if a **string** contains only the **characters** from a **set**. ...
homepage.mac.com/.../NSString+NDUtilities/ Categories/NSString_NDUtilities_/Methods/Methods.html - 26k - Cached - Similar pages

Writing Apache Modules with Perl and C
... You provide a **search** pattern, a **string** to **search**, and a **bit mask** of option flags. ... will attempt to **match** the given **string** against the **character mask**. ...
files.printf.dk/docs/apache_perl/156.htm - 19k - Cached - Similar pages

efg's Delphi **Strings**
... A valid **mask** consists of literal **characters**, **sets**, and wildcards. ... A **set** must **match** a single **character** in the **string**. The **character** matches the **set** ...
www.efg2.com/Lab/Library/Delphi/Strings/ - 92k - Cached - Similar pages

SQL and PL/SQL Programming in a Global Environment
... representation of a **character string** in one **character set** to another. ... **match** a portion of one **character** value to another by **searching** the first value ...
www.lc.leidenuniv.nl/awcourse/ oracle/server.920/a96529/ch7.htm - 54k - Cached - Similar pages

SQL Programming
... conditions **match** a portion of one **character** value to another by **searching** the first ... **strings** using **characters** as defined by the input **character set**. ...
zuse.esnig.ciform.ch/database/doc_oracle/ Oracle901_Linux/server.901/a90236/ch7.htm - 44k - Cached - Similar pages

[PPT] How To Read Research Papers
File Format: Microsoft Powerpoint 97 - View as HTML
... to **bit mask** and then comparing. Finds **sets** of words easier (phrases) ... of the **search string**, starting on the next **character** from each confirmed miss ...

www.ischool.utexas.edu/ ~i385d/presentations/WIRED-Week6.ppt - Similar pages

Tcl Built-In Commands - **string** manual page
... Search string2 for a sequence of **characters** that exactly **match** the ... equal to **string** except that any leading or trailing **characters** from the **set** given ...
nnsa.dl.ac.uk/MIDAS/manual/ActiveTcl8. 4.9.0-html/tcl/TclCmd/**string**.htm - 23k - Cached - Similar pages

Did you mean to search for: match character sets characters search string ***bitmask***

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bitmask match character sets characters sear Search Advanced Search Preferences

Web Results **1** - **10** of about **25,100** for **bitmask match character sets characters search string bitmask**. (**0.**

Boost.Regex: match_flag_type
... The type match_flag_type is an implementation specific **bitmask** type ...
of the **character** container sequence being **searched** that do **match** the regular ...
www.boost.org/libs/regex/doc/**match**_flag_type.html - 13k - Cached - Similar pages

What is a hex editor?
... the specified byte, ability to **search** for a single byte or **character string**.
... all open files; bookmark all, replace all, alignment, wildcards/**bitmask** ...
www.tech-faq.com/hex-editor.shtml - 24k - May 19, 2005 - Cached - Similar pages

Longest Common Substring
... If that **character** does occur in the target, you might be able to use a **bitmask**
... to find a **match** for one entire **string** anywhere within another **string**. ...
use.perl.org/comments.pl?sid=22777&op=& threshold=0&commentsort=0&mode=thread&tid=34&a... - 30k - Cached - Similar pages

Unicode Transformation Formats
... the corresponding simple **set** of **characters** such as ABC's **character** range ...
String searches (fgrep) for a multibyte **character** beginning with a lead ...
czyborra.com/utf/ - 59k - Cached - Similar pages

InfoType
... **bitmask** enumerating the clauses in the CREATE **CHARACTER SET** statement, ...
string containing all special **characters** (that is, all **characters** except a ...
www.canaimasoft.com/f90sql/ OnlineManual/Appendix1/InfoTypeTable.html - 119k - Cached - Similar pages

Single Round **Match** 154 Statistics at TopCoder
... We iterate through each **character** of the **string**. ... We can represent the **set**
of current states as a simple **bitmask** (eg, an array of boolean values), ...
www.topcoder.com/index?t=statistics&c=srm154_prob - 27k - Cached - Similar pages

Single Round **Match** 158 Statistics at TopCoder
... Since we only care about at most 25 colors, we can use a **bitmask** to represent
... and each pattern is 5 **characters** long, the position of the pads can be ...
www.topcoder.com/index?t=statistics&c=srm158_prob - 26k - Cached - Similar pages

Command Appendix B, The SQL GetInfo Function
... Null-terminated **character string**,. 16-bit integer value,. 32-bit **bitmask**, ...
match metacharacters underscore (_) and percent (%) as valid **characters** in ...
www.4d.fr/documentation/4DDoc67/CMU/CMU11922.HTM - 89k - Cached - Similar pages

Documentation
... (Maximum number of **strings**: 5; Maximum **string** length: 32 **characters**, ...
An address **bitmask** of decimal numbers that represent the address bits to **match**. ...
docs.us.dell.com/support/ edocs/network/5P788/CLIG/snmp.htm - 24k - May 18, 2005 - Cached - Similar pages

Appendix E. RabbitNet
... and one **character** liquid crystal display from 1 × 8 to 4 × 40 **characters** ...

status flags see **MATCH** macros below unsigned int ports; // port **bitmask ...**
www.rabbitsemiconductor.com/documentation/ docs/manuals/PowerCoreFLEX/UsersManual/erabbitn.htm - 46k - Cached - Similar pages

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Web Results **1 - 10** of about **5,430,000** for **generating search index**. (**0.22** seconds)

Generating Search Index for ht://Dig.
Generating Search Index for ht://Dig. Login:. Password:
www.puzzlehistory.com/cgi-bin/rundig - 1k - Cached - Similar pages

Generating the **search index**
Generating the **search index**. The **search** system is based on the ht://dig **search** engine. ... The basic command for **generating** the **search index** is: ...
osr507doc.sco.com/en/DSK_docview/SearchDV.html - 7k - Cached - Similar pages

DDJ
... **Generating** time-lapse animations starts with acquiring and storing images, ... DDJ's **Index** to Advertisers makes it easy for you to access product ...
www.ddj.com/ - Similar pages

Simple URLs for **Search** Engine Robots: SearchTools Report
Search Tools Reports. **Generating** Simple URLs for **Search** Engines ... Some public **search** engines and most site and intranet **search** engines will **index** URLs ...
www.**search**tools.com/robots/goodurls.html - 24k - Cached - Similar pages

One-Step Webpages by Stephen P. Morse
... Soundex: **Generating** American and Daitch-Mokotoff Soundex Codes in One Step ... Brooklyn 1925 Name **Index**: **Searching** the Brooklyn 1925 Census in One Step ...
stevemorse.org/ - 29k - May 18, 2005 - Cached - Similar pages

How **Search** Works - Lycos InSite
... When a result set is requested, the **search index** evaluates the content in the Web **index** and the paid **index**. **Generating Search** Results ...
insite.lycos.com/ **search**enginemarketing/how**search**works.asp - 10k - Cached - Similar pages

Searching for include files... **Searching** for example files ...
... **Generating** namespace member **index**... **Generating** page **index**... **Generating** graph info page... **Generating search index**... **Generating** style sheet...
hepwww.ph.qmul.ac.uk/l1calo/build/ l1calo-00-00-01/logfiles/linux-gcc/bbmServices.doxygen - 6k - Cached - Similar pages

RCCD LAMP - **Searching** Indexes
... Selecting a database or **index** Subject **searching** Keyword **searching** Identifying concepts and **generating search** terms AND, OR, and NOT (Boolean operators) ...
library.rcc.edu/**searching**indexes.htm - 48k - Cached - Similar pages

File Manager/DB2 Data V5R1 User's Guide - Contents
... **Generating** a LISTDEF statement in the DB2 utility job (DB2 Version 7 and higher) ... RECOVER Utility (**Index** Spaces) with LISTDEF panel ...
publib.boulder.ibm.com/infocenter/pdthelp/ topic/com.ibm.filemanager5.doc/db2/fmnu2e0102.htm - 84k - Cached - Similar pages

Re: **Generating** Namazu Indexes
... **Search index** for a list is not generated if the Name: starts with a ". ...

Generating Namazu Indexes, jasonc. Re: **Generating** Namazu Indexes, ...
www.mhonarc.org/archive/html/ mharc-users/2003-09/msg00007.html - 8k - Cached - Similar pages

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WEST Search History

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DATE: Friday, May 20, 2005

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L17	L16 and search$	1
☐	L16	L15 and index$	5
☐	L15	L14 and (character near5 string)	6
☐	L14	(bit mask).ab.	567
☐	L13	bit mask.ab.	567
☐	L12	L11 and (mask$ same match$)	0
☐	L11	L10 and match$	19
☐	L10	L9 and (search$ near5 index$)	55
☐	L9	(character$1 and string$1).ti.	3714
☐	L8	5377349 .uref.	8
☐	L7	l1 and mas$	2
☐	L6	6470347 .uref.	0
☐	L5	6470347.uref.	0
☐	L4	5841376 .uref.	7
☐	L3	L2 and column$1	8
☐	L2	L1 and input$	186
☐	L1	(search$ and string$1 and character$1).ti.	338

END OF SEARCH HISTORY

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040190526 A1

L17: Entry 1 of 1 File: PGPB Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040190526
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040190526 A1

TITLE: Method and apparatus for packet classification using a forest of hash tables data structure

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kumar, Alok	Santa Clara	CA	US	
Yavatkar, Raj	Portland	OR	US	

US-CL-CURRENT: 370/395.21; 370/395.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
SEARCH$	0
SEARCH	330046
SEARCHA	4
SEARCHAB	1
SEARCHABILITIES	1
SEARCHABILITY	145
SEARCHABILITYUPDATE	1
SEARCHABL	1
SEARCHABLE	6048
SEARCHABLEBATHS	2
"SEARCHABLEDEEDLISTIMPLEMENTOR.JAVA"	1
(L16 AND	

Hit List

Your wildcard search against 10000 terms has yielded the results below.
Your result set for the last L# is incomplete.
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040190526 A1

L16: Entry 1 of 5 File: PGPB Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040190526
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040190526 A1

TITLE: Method and apparatus for packet classification using a forest of hash tables data structure

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kumar, Alok	Santa Clara	CA	US	
Yavatkar, Raj	Portland	OR	US	

US-CL-CURRENT: 370/395.21; 370/395.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20030081846 A1

L16: Entry 2 of 5 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030081846
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030081846 A1

TITLE: Digital image transmission with compression and decompression

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Whitehead, Jeffrey A.	Oakland	CA	US	

US-CL-CURRENT: 382/239; 382/166

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 6118899 A

L16: Entry 3 of 5 File: USPT Sep 12, 2000

US-PAT-NO: 6118899
DOCUMENT-IDENTIFIER: US 6118899 A

TITLE: Method for lossless bandwidth compression of a series of glyphs

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bloomfield; Marc Alan	Lighthouse Point	FL		
Krantz; Jeffrey Isaac	Boca Raton	FL		

US-CL-CURRENT: 382/233; 341/55, 382/244, 709/247

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 4. Document ID: US 6081623 A

L16: Entry 4 of 5 File: USPT Jun 27, 2000

US-PAT-NO: 6081623
DOCUMENT-IDENTIFIER: US 6081623 A
**** See image for Certificate of Correction ****

TITLE: Method for lossless bandwidth compression of a series of glyphs

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bloomfield; Marc Alan	Lighthouse Point	FL		
Krantz; Jeffrey Isaac	Boca Raton	FL		

US-CL-CURRENT: 382/239; 341/106, 341/51, 358/426.13

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 5. Document ID: US 5977889 A

L16: Entry 5 of 5 File: USPT Nov 2, 1999

US-PAT-NO: 5977889
DOCUMENT-IDENTIFIER: US 5977889 A

TITLE: Optimization of data representations for transmission of storage using differences from reference data

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cohen; Norman Howard	Spring Valley	NY		

US-CL-CURRENT: 341/55; 341/87

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
INDEX$	0
INDEX	1483475
INDEXA	69
INDEXAALE	1
INDEXAB	9
INDEXABE	1
INDEXABI	1
INDEXABIC	2
INDEXABIE	15
INDEXABILE	1
INDEXABILIT	1
(L15 AND INDEX$).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

There are more results than shown above. Click here to view the entire set.

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20020136458 A1

L3: Entry 1 of 8 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136458
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020136458 A1

TITLE: Method and apparatus for character string search in image

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nagasaka, Akio	Kodaira		JP	
Miyatake, Takafumi	Hachioji		JP	

US-CL-CURRENT: 382/209

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 6785677 B1

L3: Entry 2 of 8 File: USPT Aug 31, 2004

US-PAT-NO: 6785677
DOCUMENT-IDENTIFIER: US 6785677 B1

TITLE: Method for execution of query to search strings of characters that match pattern with a target string utilizing bit vector

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fritchman; Barry Lynn	Lake Forest	CA		

US-CL-CURRENT: 707/6; 707/3, 707/5, 707/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 3. Document ID: US 5841376 A

L3: Entry 3 of 8 File: USPT Nov 24, 1998

US-PAT-NO: 5841376
DOCUMENT-IDENTIFIER: US 5841376 A

TITLE: Data compression and decompression scheme using a search tree in which each entry is stored with an infinite-length character string

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Takaaki	Yokohama			JP

US-CL-CURRENT: 341/51; 341/50

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 4. Document ID: US 5377349 A

L3: Entry 4 of 8 File: USPT Dec 27, 1994

US-PAT-NO: 5377349
DOCUMENT-IDENTIFIER: US 5377349 A

TITLE: String collating system for searching for character string of arbitrary length within a given distance from reference string

DATE-ISSUED: December 27, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Motomura; Masato	Tokyo			JP

US-CL-CURRENT: 707/7; 712/17

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 4907194 A

L3: Entry 5 of 8 File: USPT Mar 6, 1990

US-PAT-NO: 4907194
DOCUMENT-IDENTIFIER: US 4907194 A
**** See image for Certificate of Correction ****

TITLE: String comparator for searching for reference character string of arbitrary length

DATE-ISSUED: March 6, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Hachiro	Tokyo			JP
Takahashi; Kousuke	Tokyo			JP

US-CL-CURRENT: 365/49; 365/189.07, 365/189.08, 711/217

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 6. Document ID: JP 2005062976 A

L3: Entry 6 of 8 File: DWPI Mar 10, 2005

DERWENT-ACC-NO: 2005-189521
DERWENT-WEEK: 200520
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Electronic form for character input, sets reference character string searched from character list, when single character is input to input column, as input character string

PRIORITY-DATA: 2003JP-0207937 (August 19, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2005062976 A	March 10, 2005		006	G06F017/22

INT-CL (IPC): G06 F 17/21; G06 F 17/22; G06 F 19/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: JP 2003323581 A

L3: Entry 7 of 8 File: DWPI Nov 14, 2003

DERWENT-ACC-NO: 2003-889113
DERWENT-WEEK: 200382
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Account registration system for personal business companies, searches account headings based on input character string, and searched headings are automatically grouped based on input account book data

PRIORITY-DATA: 2002JP-0130956 (May 2, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003323581 A	November 14, 2003		019	G06F019/00

INT-CL (IPC): G06 F 17/60; G06 F 19/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 8. Document ID: US 5586288 A

L3: Entry 8 of 8 File: DWPI Dec 17, 1996

DERWENT-ACC-NO: 1997-051530
DERWENT-WEEK: 199705
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Memory interface chip with rapid search capability - has multiple registers to latch data from memory under control of microprocessor and to permit comparison of search strings and masking or special comparison characters provided by processor with data

INVENTOR: DAHLBERG, B

PRIORITY-DATA: 1993US-0125315 (September 22, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5586288 A	December 17, 1996		036	G06F012/00

INT-CL (IPC): G06 F 7/20; G06 F 12/00; G11 C 15/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
COLUMN$1	0
COLUMN	937400
COLUMNA	237
COLUMNB	16
COLUMNC	18
COLUMND	7
COLUMNE	61
COLUMNF	19
COLUMNG	152
COLUMNH	3
(L2 AND COLUMN$1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

There are more results than shown above. Click here to view the entire set.

Display Format: - Change Format

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Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 6834283 B1

L4: Entry 1 of 7 File: USPT Dec 21, 2004

US-PAT-NO: 6834283
DOCUMENT-IDENTIFIER: US 6834283 B1

TITLE: Data compression/decompression apparatus using additional code and method thereof

DATE-ISSUED: December 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satoh; Noriko	Kanagawa			JP

US-CL-CURRENT: 707/101; 704/3, 704/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 2. Document ID: US 6470347 B1

L4: Entry 2 of 7 File: USPT Oct 22, 2002

US-PAT-NO: 6470347
DOCUMENT-IDENTIFIER: US 6470347 B1

TITLE: Method, system, program, and data structure for a dense array storing character strings

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gillam; Richard Theodore	San Jose	CA		

US-CL-CURRENT: 707/101; 704/10, 707/10, 707/104.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 3. Document ID: US 6301394 B1

L4: Entry 3 of 7 File: USPT Oct 9, 2001

US-PAT-NO: 6301394
DOCUMENT-IDENTIFIER: US 6301394 B1

TITLE: Method and apparatus for compressing data

DATE-ISSUED: October 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trout; H. Robert G.	San Diego	CA		

US-CL-CURRENT: 382/244; 341/51, 341/87, 382/245

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 4. Document ID: US 6247015 B1

L4: Entry 4 of 7 File: USPT Jun 12, 2001

US-PAT-NO: 6247015
DOCUMENT-IDENTIFIER: US 6247015 B1

TITLE: Method and system for compressing files utilizing a dictionary array

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baumgartner; Jason Raymond	Austin	TX		
Malik; Nadeem	Austin	TX		
Roberts; Steven Leonard	Austin	TX		

US-CL-CURRENT: 707/101

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 5. Document ID: US 6195664 B1

L4: Entry 5 of 7 File: USPT Feb 27, 2001

US-PAT-NO: 6195664
DOCUMENT-IDENTIFIER: US 6195664 B1

TITLE: Method and system for controlling the conversion of a file from an input format to an output format

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tolfa; Michael John	North Richland Hills	TX		

US-CL-CURRENT: 707/200; 370/396, 707/10, 707/100, 707/101, 707/203, 709/222, 713/324

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 6. Document ID: US 6121903 A

L4: Entry 6 of 7 File: USPT Sep 19, 2000

US-PAT-NO: 6121903
DOCUMENT-IDENTIFIER: US 6121903 A

TITLE: On-the-fly data re-compression

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kalkstein; Nir	Herzliya			IL

US-CL-CURRENT: 341/63; 341/106, 341/65

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 7. Document ID: US 5945933 A

L4: Entry 7 of 7 File: USPT Aug 31, 1999

US-PAT-NO: 5945933
DOCUMENT-IDENTIFIER: US 5945933 A

TITLE: Adaptive packet compression apparatus and method

DATE-ISSUED: August 31, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kalkstein; Nir	Herzliya			IL

US-CL-CURRENT: 341/63; 341/106, 341/65

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
"5841376"	8
5841376S	0
"5841376".UREF..PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7
(5841376 .UREF.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

Display Format: - Change Format

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Hit List

Your wildcard search against 10000 terms has yielded the results below.
Your result set for the last L# is incomplete.
The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6785677 B1

L7: Entry 1 of 2 File: USPT Aug 31, 2004

US-PAT-NO: 6785677
DOCUMENT-IDENTIFIER: US 6785677 B1

TITLE: Method for execution of query to search strings of characters that match pattern with a target string utilizing bit vector

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fritchman; Barry Lynn	Lake Forest	CA		

US-CL-CURRENT: 707/6; 707/3, 707/5, 707/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 2. Document ID: US 5377349 A

L7: Entry 2 of 2 File: USPT Dec 27, 1994

US-PAT-NO: 5377349
DOCUMENT-IDENTIFIER: US 5377349 A

TITLE: String collating system for searching for character string of arbitrary length within a given distance from reference string

DATE-ISSUED: December 27, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Motomura; Masato	Tokyo			JP

US-CL-CURRENT: 707/7;

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6643647 B2

L8: Entry 1 of 8 File: USPT Nov 4, 2003

US-PAT-NO: 6643647
DOCUMENT-IDENTIFIER: US 6643647 B2

TITLE: Word string collating apparatus, word string collating method and address recognition apparatus

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Natori; Naotake	Kawasaki			JP

US-CL-CURRENT: 707/6; 704/254, 707/202, 707/7, 715/536

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 2. Document ID: US 6512851 B2

L8: Entry 2 of 8 File: USPT Jan 28, 2003

US-PAT-NO: 6512851
DOCUMENT-IDENTIFIER: US 6512851 B2

TITLE: Word recognition device and method

DATE-ISSUED: January 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Navoni; Loris	Cernusco Sul Naviglio			IT
Canegallo; Roberto	Tortona			IT
Chinosi; Mauro	Cologno Monzese			IT
Gozzini; Giovanni	Palazzolo Sull 'Oglio			IT
Kramer; Alan	Berkeley	CA		
Rolandi; Pierluigi	Volpedo			IT

US-CL-CURRENT: 382/229; 711/108

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 3. Document ID: US 6442295 B2

L8: Entry 3 of 8 File: USPT Aug 27, 2002

US-PAT-NO: 6442295
DOCUMENT-IDENTIFIER: US 6442295 B2

TITLE: Word recognition device and method

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Navoni; Loris	Cernusco sul Naviglio			IT
Canegallo; Roberto	Tortona			IT
Chinosi; Mauro	Cologno Monzese			IT
Gozzini; Giovanni	Palazzolo Sull'Oglio			IT
Kramer; Alan	Berkeley	CA		
Rolandi; Pierluigi	Volpedo			IT

US-CL-CURRENT: 382/229; 707/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 4. Document ID: US 6332195 B1

L8: Entry 4 of 8 File: USPT Dec 18, 2001

US-PAT-NO: 6332195
DOCUMENT-IDENTIFIER: US 6332195 B1

TITLE: Secure server utilizing separate protocol stacks

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Green; Michael W.	Shoreview	MN		
Jensen; Andrew W.	Oakdale	MN		

US-CL-CURRENT: 713/201; 709/201

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 6144934 A

L8: Entry 5 of 8 File: USPT Nov 7, 2000

US-PAT-NO: 6144934
DOCUMENT-IDENTIFIER: US 6144934 A

TITLE: Binary filter using pattern recognition

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stockwell; Edward B.	St. Paul	MN		
Boebert; William E.	Albuquerque	NM		
Vanyo; Heidi A.	Coon Rapids	MN		

US-CL-CURRENT: 704/1; 704/9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 6. Document ID: US 6072942 A

L8: Entry 6 of 8 File: USPT Jun 6, 2000

US-PAT-NO: 6072942
DOCUMENT-IDENTIFIER: US 6072942 A
**** See image for Certificate of Correction ****

TITLE: System and method of electronic mail filtering using interconnected nodes

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stockwell; Edward B.	St. Paul	MN		
Greve; Paula Budig	St. Anthony	MN		

US-CL-CURRENT: 709/206; 713/201

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: US 5553272 A

L8: Entry 7 of 8 File: USPT Sep 3, 1996

US-PAT-NO: 5553272
DOCUMENT-IDENTIFIER: US 5553272 A

TITLE: VLSI circuit structure for determining the edit distance between strings

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ranganathan; Nagarajan	Tampa	FL		
Sastry; Raghu	Campbell	CA		

US-CL-CURRENT: 716/11; 341/51, 341/67, 714/752, 714/757, 716/12

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 8. Document ID: US 5511159 A

L8: Entry 8 of 8 File: USPT Apr 23, 1996

US-PAT-NO: 5511159
DOCUMENT-IDENTIFIER: US 5511159 A

TITLE: Method of identifying parameterized matches in a string

DATE-ISSUED: April 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Brenda S.	Berkeley Heights	NJ		
Giancarlo; Raffaele	New York	NY		

US-CL-CURRENT: 715/700; 715/540

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
"5377349"	9
5377349S	0
"5377349".UREF..PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8
(5377349 .UREF.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

Display Format: - Change Format

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Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 19 of 19 returned.

☐ 1. Document ID: US 20020136458 A1

L11: Entry 1 of 19 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136458
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020136458 A1

TITLE: Method and apparatus for character string search in image

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nagasaka, Akio	Kodaira		JP	
Miyatake, Takafumi	Hachioji		JP	

US-CL-CURRENT: 382/209

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20010028742 A1

L11: Entry 2 of 19 File: PGPB Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010028742
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010028742 A1

TITLE: Apparatus for recognizing input character strings by inference

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gunji, Keiko	Mito-shi		JP	
Katsura, Koyo	Hitachiohta-shi		JP	
Kuzunuki, Soshiro	Hitachinaka-shi		JP	
Miura, Masaki	Hitachi-shi		JP	
Yokota, Toshimi	Hitachiohta-shi		JP	

US-CL-CURRENT: 382/229

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 6785677 B1

L11: Entry 3 of 19 File: USPT Aug 31, 2004

US-PAT-NO: 6785677
DOCUMENT-IDENTIFIER: US 6785677 B1

TITLE: Method for execution of query to search strings of characters that match pattern with a target string utilizing bit vector

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fritchman; Barry Lynn	Lake Forest	CA		

US-CL-CURRENT: 707/6; 707/3, 707/5, 707/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 4. Document ID: US 6751605 B2

L11: Entry 4 of 19 File: USPT Jun 15, 2004

US-PAT-NO: 6751605
DOCUMENT-IDENTIFIER: US 6751605 B2

TITLE: Apparatus for recognizing input character strings by inference

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gunji; Keiko	Mito			JP
Katsura; Koyo	Hitachiohta			JP
Kuzunuki; Soshiro	Hitachinaka			JP
Miura; Masaki	Hitachi			JP
Yokota; Toshimi	Hitachiohta			JP

US-CL-CURRENT: 707/1; 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 5. Document ID: US 6745053 B1

L11: Entry 5 of 19 File: USPT Jun 1, 2004

US-PAT-NO: 6745053
DOCUMENT-IDENTIFIER: US 6745053 B1

TITLE: Mobile communication terminal apparatus having character string editing function by use of speech recognition function

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Usami; Shinya	Tokyo			JP

US-CL-CURRENT: 455/563; 455/550.1, 455/566, 455/569.1, 455/569.2, 455/79, 704/270

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 6. Document ID: US 6470347 B1

L11: Entry 6 of 19 File: USPT Oct 22, 2002

US-PAT-NO: 6470347
DOCUMENT-IDENTIFIER: US 6470347 B1

TITLE: Method, system, program, and data structure for a dense array storing character strings

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gillam; Richard Theodore	San Jose	CA		

US-CL-CURRENT: 707/101; 704/10, 707/10, 707/104.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: US 6097841 A

L11: Entry 7 of 19 File: USPT Aug 1, 2000

US-PAT-NO: 6097841
DOCUMENT-IDENTIFIER: US 6097841 A
**** See image for Certificate of Correction ****

TITLE: Apparatus for recognizing input character strings by inference

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gunji; Keiko	Mito			JP

Katsura; Koyo	Hitachiohta	JP
Kuzunuki; Soshiro	Hitachinaka	JP
Miura; Masaki	Hitachi	JP
Yokota; Toshimi	Hitachiohta	JP

US-CL-CURRENT: 382/229

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 8. Document ID: US 5978800 A

L11: Entry 8 of 19 File: USPT Nov 2, 1999

US-PAT-NO: 5978800
DOCUMENT-IDENTIFIER: US 5978800 A

TITLE: Method of searching data for a given character string

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokoyama; Kunio	Kyoto			JP
Nakanishi; Hidetoshi	Kyoto			JP
Miyazaki; Ryuichi	Kyoto			JP

US-CL-CURRENT: 707/5; 707/3, 707/6, 715/513, 715/516, 715/529

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 9. Document ID: US 5940846 A

L11: Entry 9 of 19 File: USPT Aug 17, 1999

US-PAT-NO: 5940846
DOCUMENT-IDENTIFIER: US 5940846 A

TITLE: Electronic manual displaying method for displaying a data section containing a character string found in an electronic data file

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akiyama; Hidetoshi	Kawasaki			JP

US-CL-CURRENT: 715/539

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 10. Document ID: US 5841376 A

L11: Entry 10 of 19 File: USPT Nov 24, 1998

US-PAT-NO: 5841376
DOCUMENT-IDENTIFIER: US 5841376 A

TITLE: Data compression and decompression scheme using a search tree in which each entry is stored with an infinite-length character string

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Takaaki	Yokohama			JP

US-CL-CURRENT: 341/51; 341/50

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 11. Document ID: US 5337233 A

L11: Entry 11 of 19 File: USPT Aug 9, 1994

US-PAT-NO: 5337233
DOCUMENT-IDENTIFIER: US 5337233 A

TITLE: Method and apparatus for mapping multiple-byte characters to unique strings of ASCII characters for use in text retrieval

DATE-ISSUED: August 9, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hofert; David K.	Hudson	NH		
Yoshida; Yutaka	Tokyo			JP

US-CL-CURRENT: 715/540; 715/531

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 12. Document ID: US 5265242 A

L11: Entry 12 of 19 File: USPT Nov 23, 1993

US-PAT-NO: 5265242
DOCUMENT-IDENTIFIER: US 5265242 A

TITLE: Document retrieval system for displaying document image data with inputted

bibliographic items and character string selected from multiple character candidates

DATE-ISSUED: November 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujisawa; Hiromichi	Tokorozawa-shi, Saitama			JP
Hatakeyama; Atsushi	Kokubunji-shi, Tokyo			JP
Nakano; Yasuaki	Hino-shi, Tokyo			JP
Higashino; Junichi	Kogamei-shi, Tokyo			JP
Hananoi; Toshihiro	Naka-gun, Kanagawa			JP

US-CL-CURRENT: 707/3; 382/231, 382/305, 707/104.1, 715/530

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 13. Document ID: JP 2005063284 A

L11: Entry 13 of 19 File: DWPI Mar 10, 2005

DERWENT-ACC-NO: 2005-189646
DERWENT-WEEK: 200520
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TITLE: Performance management support system judges whether input search question sentence contains important word stored in specific index, and uses character string which matches partially or fully as search key

PRIORITY-DATA: 2003JP-0294851 (August 19, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2005063284 A	March 10, 2005		034	G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: JP 2004128710 A

L11: Entry 14 of 19 File: DWPI Apr 22, 2004

DERWENT-ACC-NO: 2004-360651
DERWENT-WEEK: 200434
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TITLE: Moving image search method involves searching character string which corresponds to search key word, based on moving image search requirement from client terminal

PRIORITY-DATA: 2002JP-0287554 (September 30, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004128710 A	April 22, 2004		019	H04N005/76

INT-CL (IPC): G06 F 17/30; H04 N 5/76; H04 N 5/765

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 15. Document ID: JP 2004128692 A

L11: Entry 15 of 19 File: DWPI Apr 22, 2004

DERWENT-ACC-NO: 2004-360649
DERWENT-WEEK: 200434
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TITLE: Search index assigning method for moving image, involves matching selected character strings and identification information of divided moving images, based on which selected strings are assigned as search index for respective images

PRIORITY-DATA: 2002JP-0287240 (September 30, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004128692 A	April 22, 2004		030	H04N005/765

INT-CL (IPC): G06 F 17/30; H04 N 5/76; H04 N 5/765; H04 N 5/91

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 16. Document ID: JP 2004021746 A

L11: Entry 16 of 19 File: DWPI Jan 22, 2004

DERWENT-ACC-NO: 2004-137821
DERWENT-WEEK: 200414
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TITLE: Character string retrieval result display method in electronic document search system, extracts positional data about extracted keywords using position and index files so as to generate highlighted data

PRIORITY-DATA: 2002JP-0177711 (June 18, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004021746 A	January 22, 2004		016	G06F017/30

INT-CL (IPC): G06 F 17/21; G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 17. Document ID: JP 2004094916 A, US 20040006460 A1

L11: Entry 17 of 19 File: DWPI Mar 25, 2004

DERWENT-ACC-NO: 2004-167553
DERWENT-WEEK: 200422
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TITLE: Problem solving support system for users of electronic apparatus e.g. portable telephone, extracts index word character strings that correspond to element word, if input word is neither kana nor Roman alphabetic

INVENTOR: KATAYAMA, Y; NARUMI, T

PRIORITY-DATA: 2003JP-0126068 (April 30, 2003), 2002JP-0198204 (July 8, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004094916 A	March 25, 2004		034	G06F017/30
US 20040006460 A1	January 8, 2004		044	G06F017/21

INT-CL (IPC): G06 F 17/21; G06 F 17/30; H04 M 11/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 18. Document ID: JP 09212523 A

L11: Entry 18 of 19 File: DWPI Aug 15, 1997

DERWENT-ACC-NO: 1997-462392
DERWENT-WEEK: 199743
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Sentence search method for CD-ROM publication, E-mail using computer, word processor - involves searching character string by matching each character in search character string with character string in document and also matching their utilisation type

PRIORITY-DATA: 1996JP-0035500 (January 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 09212523 A	August 15, 1997		013	G06F017/30

INT-CL (IPC): G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 19. Document ID: EP 470798 A, DE 69128053 E, JP 04095161 A, US 5136289 A, EP 470798 A3, EP 470798 B1

L11: Entry 19 of 19 File: DWPI Feb 12, 1992

DERWENT-ACC-NO: 1992-050835

DERWENT-WEEK: 199803
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Dictionary searching system - uses index and list sections to store reference numbers assigned to one character string and reader to detect matching of input characters

INVENTOR: CHIBA, H; NAKANO, Y ; OKADA, Y ; YOSHIDA, S

PRIORITY-DATA: 1990JP-0211295 (August 8, 1990), 1990JP-0209566 (August 6, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 470798 A	February 12, 1992		027	
DE 69128053 E	December 4, 1997		000	G06F017/30
JP 04095161 A	March 27, 1992		012	
US 5136289 A	August 4, 1992		022	H03M007/40
EP 470798 A3	April 7, 1993		027	
EP 470798 B1	October 29, 1997	E	028	G06F017/30

INT-CL (IPC): G06F 15/40; G06F 17/30; H03M 7/30; H03M 7/40

Term	Documents
MATCH$	0
MATCH	483314
MATCHA	84
MATCHABE	1
MATCHABEIII	1
MATCHABELLI	16
MATCHABELU	1
MATCHABERI	1
MATCHABIE	1
MATCHABILITIES	2
(L10 AND MATCH$).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	19

There are more results than shown above. Click here to view the entire set.

Display Format: - Change Format

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Search Results - Record(s) 1 through 19 of 19 returned.

☐ 1. Document ID: US 20020136458 A1

L11: Entry 1 of 19 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136458
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020136458 A1

TITLE: Method and apparatus for character string search in image

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nagasaka, Akio	Kodaira		JP	
Miyatake, Takafumi	Hachioji		JP	

US-CL-CURRENT: 382/209

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20010028742 A1

L11: Entry 2 of 19 File: PGPB Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010028742
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010028742 A1

TITLE: Apparatus for recognizing input character strings by inference

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gunji, Keiko	Mito-shi		JP	
Katsura, Koyo	Hitachiohta-shi		JP	
Kuzunuki, Soshiro	Hitachinaka-shi		JP	
Miura, Masaki	Hitachi-shi		JP	
Yokota, Toshimi	Hitachiohta-shi		JP	

US-CL-CURRENT: 382/229

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 6785677 B1

L11: Entry 3 of 19 File: USPT Aug 31, 2004

US-PAT-NO: 6785677
DOCUMENT-IDENTIFIER: US 6785677 B1

TITLE: Method for execution of query to search strings of characters that match pattern with a target string utilizing bit vector

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fritchman; Barry Lynn	Lake Forest	CA		

US-CL-CURRENT: 707/6; 707/3, 707/5, 707/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 4. Document ID: US 6751605 B2

L11: Entry 4 of 19 File: USPT Jun 15, 2004

US-PAT-NO: 6751605
DOCUMENT-IDENTIFIER: US 6751605 B2

TITLE: Apparatus for recognizing input character strings by inference

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gunji; Keiko	Mito			JP
Katsura; Koyo	Hitachiohta			JP
Kuzunuki; Soshiro	Hitachinaka			JP
Miura; Masaki	Hitachi			JP
Yokota; Toshimi	Hitachiohta			JP

US-CL-CURRENT: 707/1; 707/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 6745053 B1

L11: Entry 5 of 19 File: USPT Jun 1, 2004

US-PAT-NO: 6745053
DOCUMENT-IDENTIFIER: US 6745053 B1

TITLE: Mobile communication terminal apparatus having character string editing function by use of speech recognition function

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Usami; Shinya	Tokyo			JP

US-CL-CURRENT: 455/563; 455/550.1, 455/566, 455/569.1, 455/569.2, 455/79, 704/270

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 6. Document ID: US 6470347 B1

L11: Entry 6 of 19 File: USPT Oct 22, 2002

US-PAT-NO: 6470347
DOCUMENT-IDENTIFIER: US 6470347 B1

TITLE: Method, system, program, and data structure for a dense array storing character strings

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gillam; Richard Theodore	San Jose	CA		

US-CL-CURRENT: 707/101; 704/10, 707/10, 707/104.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 7. Document ID: US 6097841 A

L11: Entry 7 of 19 File: USPT Aug 1, 2000

US-PAT-NO: 6097841
DOCUMENT-IDENTIFIER: US 6097841 A
**** See image for Certificate of Correction ****

TITLE: Apparatus for recognizing input character strings by inference

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gunji; Keiko	Mito			JP

Katsura; Koyo	Hitachiohta	JP
Kuzunuki; Soshiro	Hitachinaka	JP
Miura; Masaki	Hitachi	JP
Yokota; Toshimi	Hitachiohta	JP

US-CL-CURRENT: 382/229

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 8. Document ID: US 5978800 A

L11: Entry 8 of 19 File: USPT Nov 2, 1999

US-PAT-NO: 5978800
DOCUMENT-IDENTIFIER: US 5978800 A

TITLE: Method of searching data for a given character string

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokoyama; Kunio	Kyoto			JP
Nakanishi; Hidetoshi	Kyoto			JP
Miyazaki; Ryuichi	Kyoto			JP

US-CL-CURRENT: 707/5; 707/3, 707/6, 715/513, 715/516, 715/529

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 9. Document ID: US 5940846 A

L11: Entry 9 of 19 File: USPT Aug 17, 1999

US-PAT-NO: 5940846
DOCUMENT-IDENTIFIER: US 5940846 A

TITLE: Electronic manual displaying method for displaying a data section containing a character string found in an electronic data file

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akiyama; Hidetoshi	Kawasaki			JP

US-CL-CURRENT: 715/539

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 10. Document ID: US 5841376 A

L11: Entry 10 of 19 File: USPT Nov 24, 1998

US-PAT-NO: 5841376
DOCUMENT-IDENTIFIER: US 5841376 A

TITLE: Data compression and decompression scheme using a search tree in which each entry is stored with an infinite-length character string

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Takaaki	Yokohama			JP

US-CL-CURRENT: 341/51; 341/50

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De

☐ 11. Document ID: US 5337233 A

L11: Entry 11 of 19 File: USPT Aug 9, 1994

US-PAT-NO: 5337233
DOCUMENT-IDENTIFIER: US 5337233 A

TITLE: Method and apparatus for mapping multiple-byte characters to unique strings of ASCII characters for use in text retrieval

DATE-ISSUED: August 9, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hofert; David K.	Hudson	NH		
Yoshida; Yutaka	Tokyo			JP

US-CL-CURRENT: 715/540; 715/531

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De

☐ 12. Document ID: US 5265242 A

L11: Entry 12 of 19 File: USPT Nov 23, 1993

US-PAT-NO: 5265242
DOCUMENT-IDENTIFIER: US 5265242 A

TITLE: Document retrieval system for displaying document image data with inputted

bibliographic items and character string selected from multiple character candidates

DATE-ISSUED: November 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujisawa; Hiromichi	Tokorozawa-shi, Saitama			JP
Hatakeyama; Atsushi	Kokubunji-shi, Tokyo			JP
Nakano; Yasuaki	Hino-shi, Tokyo			JP
Higashino; Junichi	Kogamei-shi, Tokyo			JP
Hananoi; Toshihiro	Naka-gun, Kanagawa			JP

US-CL-CURRENT: 707/3; 382/231, 382/305, 707/104.1, 715/530

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 13. Document ID: JP 2005063284 A

L11: Entry 13 of 19 File: DWPI Mar 10, 2005

DERWENT-ACC-NO: 2005-189646
DERWENT-WEEK: 200520
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TITLE: Performance management support system judges whether input search question sentence contains important word stored in specific index, and uses character string which matches partially or fully as search key

PRIORITY-DATA: 2003JP-0294851 (August 19, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2005063284 A	March 10, 2005		034	G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 14. Document ID: JP 2004128710 A

L11: Entry 14 of 19 File: DWPI Apr 22, 2004

DERWENT-ACC-NO: 2004-360651
DERWENT-WEEK: 200434
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TITLE: Moving image search method involves searching character string which corresponds to search key word, based on moving image search requirement from client terminal

PRIORITY-DATA: 2002JP-0287554 (September 30, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004128710 A	April 22, 2004		019	H04N005/76

INT-CL (IPC): G06 F 17/30; H04 N 5/76; H04 N 5/765

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 15. Document ID: JP 2004128692 A

L11: Entry 15 of 19 File: DWPI Apr 22, 2004

DERWENT-ACC-NO: 2004-360649
DERWENT-WEEK: 200434
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TITLE: Search index assigning method for moving image, involves matching selected character strings and identification information of divided moving images, based on which selected strings are assigned as search index for respective images

PRIORITY-DATA: 2002JP-0287240 (September 30, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004128692 A	April 22, 2004		030	H04N005/765

INT-CL (IPC): G06 F 17/30; H04 N 5/76; H04 N 5/765; H04 N 5/91

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 16. Document ID: JP 2004021746 A

L11: Entry 16 of 19 File: DWPI Jan 22, 2004

DERWENT-ACC-NO: 2004-137821
DERWENT-WEEK: 200414
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TITLE: Character string retrieval result display method in electronic document search system, extracts positional data about extracted keywords using position and index files so as to generate highlighted data

PRIORITY-DATA: 2002JP-0177711 (June 18, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004021746 A	January 22, 2004		016	G06F017/30

INT-CL (IPC): G06 F 17/21; G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 17. Document ID: JP 2004094916 A, US 20040006460 A1

L11: Entry 17 of 19 File: DWPI Mar 25, 2004

DERWENT-ACC-NO: 2004-167553
DERWENT-WEEK: 200422
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Problem solving support system for users of electronic apparatus e.g. portable telephone, extracts index word character strings that correspond to element word, if input word is neither kana nor Roman alphabetic

INVENTOR: KATAYAMA, Y; NARUMI, T

PRIORITY-DATA: 2003JP-0126068 (April 30, 2003), 2002JP-0198204 (July 8, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2004094916 A	March 25, 2004		034	G06F017/30
US 20040006460 A1	January 8, 2004		044	G06F017/21

INT-CL (IPC): G06 F 17/21; G06 F 17/30; H04 M 11/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 18. Document ID: JP 09212523 A

L11: Entry 18 of 19 File: DWPI Aug 15, 1997

DERWENT-ACC-NO: 1997-462392
DERWENT-WEEK: 199743
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Sentence search method for CD-ROM publication, E-mail using computer, word processor - involves searching character string by matching each character in search character string with character string in document and also matching their utilisation type

PRIORITY-DATA: 1996JP-0035500 (January 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 09212523 A	August 15, 1997		013	G06F017/30

INT-CL (IPC): G06 F 17/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 19. Document ID: EP 470798 A, DE 69128053 E, JP 04095161 A, US 5136289 A, EP 470798 A3, EP 470798 B1

L11: Entry 19 of 19 File: DWPI Feb 12, 1992

DERWENT-ACC-NO: 1992-050835

DERWENT-WEEK: 199803
COPYRIGHT 2005 DERWENT INFORMATION LTD
TITLE: Dictionary searching system - uses index and list sections to store reference numbers assigned to one character string and reader to detect matching of input characters

INVENTOR: CHIBA, H; NAKANO, Y ; OKADA, Y ; YOSHIDA, S

PRIORITY-DATA: 1990JP-0211295 (August 8, 1990), 1990JP-0209566 (August 6, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 470798 A	February 12, 1992		027	
DE 69128053 E	December 4, 1997		000	G06F017/30
JP 04095161 A	March 27, 1992		012	
US 5136289 A	August 4, 1992		022	H03M007/40
EP 470798 A3	April 7, 1993		027	
EP 470798 B1	October 29, 1997	E	028	G06F017/30

INT-CL (IPC): G06F 15/40; G06F 17/30; H03M 7/30; H03M 7/40

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
MATCH$	0
MATCH	483314
MATCHA	84
MATCHABE	1
MATCHABEIII	1
MATCHABELLI	16
MATCHABELU	1
MATCHABERI	1
MATCHABIE	1
MATCHABILITIES	2
(L10 AND MATCH$).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	19

There are more results than shown above. Click here to view the entire set.

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RESULT LIST
Approximately **187** results found in the Worldwide database for:
search in the title AND **string** in the title or abstract
(Results are sorted by date of upload in database)

11 **String search neuron for artificial neural networks**
Inventor: SPECHT DONALD F (US); PAILLET GUY (US) Applicant:
EC: IPC: G06G7/00; G06F15/18; (+3)
Publication info: **US2004122783** - 2004-06-24

12 **BLINKING ANNOTATION CALLOUTS HIGHLIGHTING CROSS LANGUAGE SEARCH RESULTS**
Inventor: CHAN NING-PING (US) Applicant: CHAN NING-PING (US)
EC: G06F17/24A; G06F17/30W1 IPC: G06F17/30; G06F17/28
Publication info: **WO2004042615** - 2004-05-21

13 **Methods and systems for search indexing**
Inventor: GROSS WILLIAM (US); COLWELL STEVEN LEE (US) Applicant:
EC: IPC: G06F17/30
Publication info: **US2004133564** - 2004-07-08

14 **Automatic search method**
Inventor: LEITERMANN THOMAS (DE) Applicant:
EC: G06F17/30H2; G06F17/30H4 IPC: G06F7/00
Publication info: **US2004030692** - 2004-02-12

15 **Multi-language document search and retrieval system**
Inventor: LOOFBOURROW WAYNE (US); CASSERES DAVID (US) Applicant:
EC: G06F17/27; G06F17/30H2 IPC: G06F17/28
Publication info: **US2004006456** - 2004-01-08

16 **FULL REGULAR EXPRESSION SEARCH OF NETWORK TRAFFIC**
Inventor: MATHUR ALOK; BEYLIN BORIS Applicant: INTEL CORP (US)
EC: G06F7/02; G06F17/30G3; (+1) IPC: G06F7/00
Publication info: **WO03107173** - 2003-12-24

17 **Method for accessing a storage unit during the search for substrings, and a corresponding storage unit**
Inventor: RABAIOLI GIOVANNI (US) Applicant:
EC: G06F17/30P2F IPC: G06F17/30
Publication info: **US2004015498** - 2004-01-22

18 **SEARCH DEVICE**
Inventor: UCHIYAMA MASAO; ISAHARA HITOSHI Applicant: NAT INST OF INFORMATION & COMM
EC: IPC: G06F17/30
Publication info: **JP2004280259** - 2004-10-07

19 **SEARCH CHARACTER INPUT DEVICE, METHOD, STORAGE MEDIUM, AND WWW BROWSER HAVING SEARCH CHARACTER INPUT WINDOW**
Inventor: OKABE TOSHIHIKO; OKABE CHISATO Applicant: OKABE TOSHIHIKO; OKABE CHISATO
EC: IPC: G06F17/30; G06F3/00
Publication info: **JP2004259216** - 2004-09-16

20 **DATABASE SEARCH SYSTEM AND SEARCH METHOD, METHOD FOR FORMING DATA FILE USED FOR SEARCH, AND STORAGE MEDIUM STORING DATA FILE**
Inventor: TERUI FUMIHIKO; NAKAMURA TOSHIYUKI Applicant: IBM

RESULT LIST
Approximately **65** results found in the Worldwide database for:
mask in the title AND **string** in the title or abstract
(Results are sorted by date of upload in database)

21 **MASK WITH ADJUSTABLE STRING**
Inventor: KIM SANG SIK (KR) Applicant: HYUPWOO TRADING CO LTD (KR)
EC: IPC: A62B18/00
Publication info: **KR188193Y** - 2000-07-15

22 **DIVING MASK WITH INCLINED GLASS**
Inventor: GODOY CARLOS ALBERTO Applicant: CRESSI SUB SPA
EC: B63C11/12 IPC: A63B33/00; B63C11/12
Publication info: **JP2000202064** - 2000-07-25

23 **MASK HOLDING MEMBER AND COMPOSITE MASK USING THE SAME**
Inventor: ITO HARUHIKO; ENOMOTO SATOSHI Applicant: JAPAN VILENE CO LTD
EC: IPC: A62B18/08
Publication info: **JP2001104501** - 2001-04-17

24 **MASK WITH POCKET FOR FIXING MOUTH CLOTH TO BACK FACE**
Inventor: HASE AKIKO Applicant: HASE AKIKO
EC: IPC: A62B18/02
Publication info: **JP2000288107** - 2000-10-17

25 **PHOTOCATALYTIC SANITARY MASK**
Inventor: SATO YASUO Applicant: EKUSERU LIGHT KK
EC: IPC: A62B18/02; B01J35/02
Publication info: **JP2000202052** - 2000-07-25

26 **MASK AND MASK COVER**
Inventor: TAKESHIMA KATSUMARO; INOUE RYUSUKE; (+1) Applicant: TM ADOTEKKU KK; KITAMURA SHOKO KK; (+1)
EC: IPC: A62B18/02
Publication info: **JP2000197711** - 2000-07-18

27 **Two mask method for reducing field oxide encroachment in memory arrays**
Inventor: HSIEH CHIA-TA (TW); KUO DI-SON (TW); (+2) Applicant: TAIWAN SEMICONDUCTOR MFG (TW)
EC: H01L21/762B; H01L21/8242 IPC: H01L21/8247; H01L21/8242; (+1)
Publication info: **US5976927** - 1999-11-02

28 **COMMON SPECTACLE MOUNTING FULL FACE MASK**
Inventor: HARUKAWA JUNICHI; YOKOTA YOSHIHIRO; (+2) Applicant: JAPAN TECH RES & DEV INST
EC: IPC: A62B18/08; A62B18/02
Publication info: **JP11267235** - 1999-03-24

29 **Mask protective device**
Inventor: NAKAGAWA HIROAKI (JP); KONDO MASAHIRO (JP) Applicant: MITSUI CHEMICALS INC (JP)
EC: G03F1/14D IPC: G03F1/14
Publication info: **US6083577** - 2000-07-04

30 **MASK WITH ADHESIVE**
Inventor: HOSODA MINORU Applicant: HOSODA MINORU
EC: A41D13/11C2B IPC: A62B18/02
Publication info: **JP10248948** - 1998-09-22

RESULT LIST
Approximately **187** results found in the Worldwide database for:
search in the title AND **string** in the title or abstract
(Results are sorted by date of upload in database)

1 **Incremental search of keyword strings**
Inventor: TOSEY JOSEPH PETER R (CA) Applicant: SIERRA WIRELESS INC A CANADIAN
EC: IPC: G06F17/00
Publication info: **US2005086234** - 2005-04-21

2 **ADVERTISING BASED ON A SEARCH STRING AND USER ATTRIBUTE COMBINATION**
Inventor: RAINEY JIM E (US) Applicant: ASK JEEVES INC (US); RAINEY JIM E (US)
EC: IPC: H04L
Publication info: **WO2005029745** - 2005-03-31

3 **Reverse search system and method**
Inventor: SCHACHAM ALON (IL); MATZA AVI (IL); (+1) Applicant:
EC: G06F17/30P2S9; G11C15/00 IPC: G06F12/00
Publication info: **US2005050260** - 2005-03-03

4 **Search system, search program, and personal computer**
Inventor: TANAKA TAKASHIGE (JP); KASAI TSUNEO (JP); (+1) Applicant: SEIKO EPSON CORP (JP)
EC: IPC: G06F17/30
Publication info: **EP1510948** - 2005-03-02

5 **Method using the digit string grouped by several specified phone numbers sequentially to search specific e-mail address**
Inventor: LIN JUNG-YU (TW) Applicant: LIN JUNG-YU (TW)
EC: IPC: G06F17/30
Publication info: **TW594505** - 2004-06-21

6 **PDA with dictionary search and repeated voice reading function**
Inventor: LAI CHENG-SHING (TW); TU XUWEI (CN) Applicant: INVENTEC APPLIANCES CORP (TW)
EC: IPC: G06F3/00
Publication info: **TW591486** - 2004-06-11

7 **Systems and methods that employ a distributional analysis on a query log to improve search results**
Inventor: BRILL ERIC D (US); CARMICHAEL PHILIP F (US) Applicant:
EC: IPC: G06F7/00
Publication info: **US2004254920** - 2004-12-16

8 **TELEVISION RECEIVING APPARATUS AND ITS PROGRAM INFORMATION SEARCH METHOD**
Inventor: KONISHI MASAHITO Applicant: MATSUSHITA ELECTRIC IND CO LTD
EC: IPC: H04N5/445; G06F17/30; (+1)
Publication info: **JP2004312627** - 2004-11-04

9 **Edit distance string search**
Inventor: BAX ERIC THEODORE (US); SWETT IAN DOUGLAS (US) Applicant:
EC: G06F7/02 IPC: G06F7/00
Publication info: **US2004220920** - 2004-11-04

10 **Service search device and method, and client device using service search device**
Inventor: YOSHIMURA KOICHI (JP); OKUYAMA JUNICHI Applicant: FUJI XEROX CO LTD (JP)

(JP)

EC: IPC: G06F17/30; G06F15/16

Publication info: **US2004122812** - 2004-06-24

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